

3. (Amended) The method of tuning a filter according to claim 1,
wherein the filter comprises a bandpass filter. ✓

0 4. (Amended) The method of tuning a filter according to claim 1, wherein
the filter comprises a notch filter.

5. (Amended) The method of tuning a filter according to claim 1, wherein
the step of tuning said oscillator comprises providing a tuning signal.

6. (Amended) The method according to claim 5, further comprising the
step of recording the tuning signal which causes said oscillator to operate at
the desired frequency.

7. (Amended) The method according to claim 6, wherein the step of
recording the tuning signal comprises sampling and holding the tuning signal.

8. (Amended) The method according to claim 7, further comprising
storing the sampled signal in a register.

9. (Amended) The method according to claim 1, wherein the filter circuit
includes a tank circuit and the step of tuning the oscillator comprises tuning the
resonant frequency of the tank.

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11. (Amended) The tunable filter according to claim 10, wherein the filter circuit is subject to energy losses, wherein the configuration circuit comprises a compensation circuit operable to compensate for said losses.

12. (Amended) The tunable filter according to claim 11, wherein said losses are due to parasitic resistance, the compensation circuit being operable to provide a negative resistance to compensate for the parasitic resistance.

13. (Amended) The tunable filter according to claim 10, wherein the filter circuit comprises a tank circuit.

14. (Amended) The tunable filter according to claim 10, wherein the filter circuit includes a varactor for tuning the oscillator.

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16. (Amended) The tunable filter according to claim 15, further comprising tuning means for tuning the oscillator.

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20. (Amended) The programmable filter according to claim 18, wherein the filter comprises a bandpass filter.

21. (Amended) The programmable filter according to claim 20, wherein the memory includes a plurality of digital words, each word corresponding to a tuning signal which represents a desired center frequency for the filter.